

## LIST OF ACRONYMS AND UNITS

AERP	Aquatic Effects Research Program
AIRS	Atmospheric Information Retrieval Systems
Al	Aluminum
ANC	Acid neutralizing capacity
ARD	Air Resources Division (of the National Park Service)
AQRV	Air quality related value
BADL	Badlands National Park
$b_{\text{abs}}$	Light absorption coefficient
$b_{\text{ext}}$	Light extinction coefficient
BLM	Bureau of Land Management
$b_{\text{Ray}}$	Rayleigh extinction coefficient
Ca	Calcium
$C_B$	Base cations
Cl	Chloride
CO	Carbon monoxide
DOC	Dissolved organic carbon
EMAP	Environmental Monitoring and Assessment Program
EPA	Environmental Protection Agency
GIS	Geographic information system
GLAC	Glacier National Park
GRTE	Grand Teton National Park
H	Hydrogen
$\text{HCO}_3$	Bicarbonate
HF	Hydrogen fluoride
$\text{H}_2\text{S}$	Hydrogen sulfide
IAP	Integrated Assessment Report
IMPROVE	Interagency Monitoring of Protected Visual Environments
K	Potassium
LAC	Limit of acceptable change
MAGIC	Model of Acidification of Groundwater in Catchments
MERLIN	Model of Ecosystem Retention and Leaching of Inorganic Nitrogen
Mg	Magnesium
N	Nitrogen
Na	Sodium
NAAQS	National Ambient Air Quality Standards
NADP	National Atmospheric Deposition Program
NADP/NTN	National Atmospheric Deposition Program/National Trends Network
NAPAP	National Acid Precipitation Assessment Program
NAWQA	National Water Quality Assessment
NDSDH	North Dakota State Department of Health
$\text{NH}_3$	Ammonia
$\text{NH}_4\text{-N}$	Ammonium
NO	Nitric oxide
$\text{NO}_2$	Nitrogen dioxide
$\text{NO}_3\text{-N}$	Nitrate
$\text{NO}_x$	Nitrogen oxides
NPS	National Park Service
$\text{O}_3$	Ozone
P	Phosphorus
PM-10	Particulate matter less than 10 $\mu\text{m}$ diameter
PM-2.5	Particulate matter less than 2.5 $\mu\text{m}$ diameter

PSD	Prevention of significant deterioration
RH	Relative humidity
ROMO	Rocky Mountain National Park
S	Sulfur
SFU	Stacked filter unit
SIP	State implementation plan
SO <sub>2</sub>	Sulfur dioxide
SO <sub>4</sub>	Sulfate
STORET	Storage and Retrieval Database (EPA)
SVR	Standard visual range
THRO	Theodore Roosevelt National Park
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
VMT	Vehicular miles traveled
VOC	Volatile organic compound
VR	Visual range
VWM	Volume-weighted mean
WICA	Wind Cave National Park
YELL	Yellowstone National Park

#### Units

cfs	cubic feet per second
cm	centimeter
dv	deciview
ha	hectare
kg	kilograms
km	kilometer
L	liter
m	meter
meq	milliequivalent
mg	milligram
Mm <sup>-1</sup>	inverse megameters
ppbv	parts per billion by volume
ppmv	parts per million by volume
yr	year
μeq	microequivalents
μg	micrograms
μm	micrometers
μS	microsiemens